

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT) <sup>8502787</sup>

(51) International Patent Classification 5 :  F16L 17/00, 23/16		A1	(11) International Publication Number: <b>WO 96/02787</b>  (43) International Publication Date: 1 February 1996 (01.02.96)
(21) International Application Number: PCT/US94/08087			(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 13 July 1994 (13.07.94)			
(60) Parent Application or Grant (63) Related by Continuation US Filed on	PCT/US93/05343 (CIP) 4 June 1993 (04.06.93)		
(71)(72) Applicant and Inventor: CARR, Ronald, L. [US/US]; 73968 Debast Road, Rainier, OR 97048 (US).			Published <i>With international search report.</i> <i>With amended claims.</i>
(74) Agents: BIRDWELL, William, A. et al.; William A. Birdwell & Associates, Suite 1260, 900 S.W. 5th Avenue, Portland, OR 97204 (US).			

## (54) Title: JOINT ASSEMBLY EMPLOYING MULTI-RING GASKET

## (57) Abstract

A multi-ring gasket (140) is for sealing the joint between two flanged general non-metallic pipes. In one embodiment, the gasket has an inner ring (72) an outer ring (132) and a plurality of spokes (77) connecting the inner ring (72) to the outer ring (132). The various gasket embodiments have additional features, including having a substantially inset outermost ring (132) so that the gasket (140) may be used with a flange having a mating surface interior of the bolts employed to draw the flanges together; having spokes (96) that do not encircle the bolts but that provide for aligning the gasket with respect to the bolts and the flanges; having an outer periphery (102) that is at least partially rectilinear, having one or more peripheral notches (112) for receiving a thickness gauge; and having a tab (144) for manipulating the gasket (140) in the installation thereof.

